



# Aviation Training Branch

## Commanders' Course

### *SARA Update* *Marine-SHARP Update*

**LtCol Pat Riley "Coach"**  
**TECOM(ATB)**  
**STANDARDS**  
**AUTOMATED TRAINING**  
**MANAGEMENT**

# Overview

- *SARA Update*
- *Care & Feeding*
- *M-SHARP Update*
- *What will it do?*
- *What's it look like?*
- *When will I see it?*
- *Q&A*



# Historical & Road Ahead

- Oct 2001
  - ATB tasked to
    - “Fix SARA”
    - Create “road ahead”
- Jun 2002
  - SARA update concept
  - M-SHARP vision
- Oct 2003 – May 2004
  - SARA 5.0 fielded
  - M-SHARP Phase I definition
- Dec 2004
  - M-SHARP SOW drafted
- Jun 2005
  - M-SHARP contract
- Oct 2006
  - Initial introduction of M-SHARP Phase I
- Feb 2007 M-SHARP IOC
- Oct 2007 M-SHARP FOC
- FY07 – FYDP
  - Periodic and phased updates



# SARA 5.0 Update Concept

- Extreme Makeover: SARA Edition
  - Usability & Functionality
    - T&R interface
    - ORM
    - Navigation
    - User friendliness
    - Custom Reports



# SARA 5.0.3 Upgrades

## Usability

## T&R

## Functionality

- TECOM(ATB) Website
- Auto Loader: T&R
- Standard Lists
- Add-a-Crew Wizard
- Custom Reports
- Naval Air Terminology
- Auto Data Check/Scale

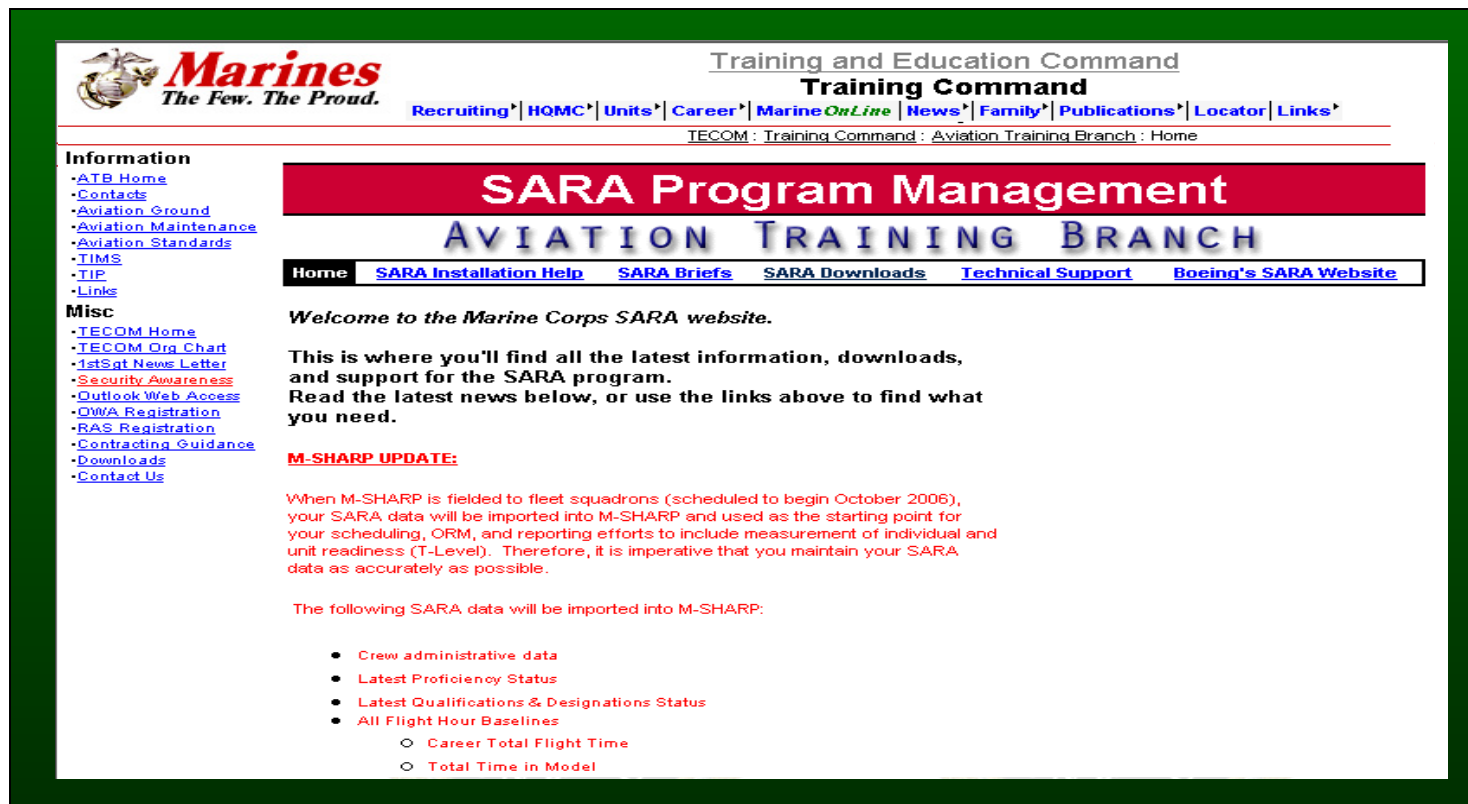
- Crew Transfer Module
- SLAP Incorporation
- NALCOMIS (Pax/Cargo)
- NALCOMIS (TMR)
- NALCOMIS (Sorties)
- T&R Rules Enforcement
- Risk Model


# T&R Download

- Individual T&Rs are now standardized & updated at ATB (T&R Downloads)
  - Downloaded from ATB website
  - Automatically converts old-new syllabus
- SARA computes, updates & tracks T&R event proficiency status using T&R Program rules
  - Automated, not automatic



# Where Do I Get My T&R?



 **Marines**  
The Few. The Proud.

Training and Education Command  
**Training Command**

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TECOM : Training Command : Aviation Training Branch : Home

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**Misc**

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- [TECOM Org Chart](#)
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**SARA Program Management**  
**AVIATION TRAINING BRANCH**

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*Welcome to the Marine Corps SARA website.*

This is where you'll find all the latest information, downloads, and support for the SARA program.  
Read the latest news below, or use the links above to find what you need.

**M-SHARP UPDATE:**





When M-SHARP is fielded to fleet squadrons (scheduled to begin October 2006), your SARA data will be imported into M-SHARP and used as the starting point for your scheduling, ORM, and reporting efforts to include measurement of individual and unit readiness (T-Level). Therefore, it is imperative that you maintain your SARA data as accurately as possible.

The following SARA data will be imported into M-SHARP:

- Crew administrative data
- Latest Proficiency Status
- Latest Qualifications & Designations Status
- All Flight Hour Baselines
  - Career Total Flight Time
  - Total Time in Model

<http://www.tecom.usmc.mil/atb/sar>

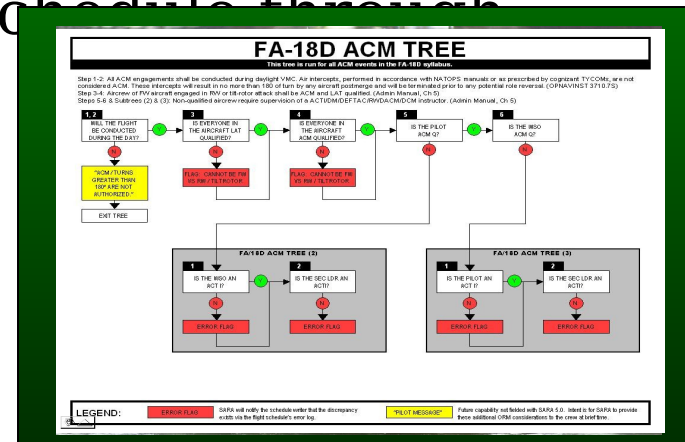
# What Does the Download Site Look Like?

<b>HMM</b> CH-46 <a href="#">Download Now</a>  MCO P3500.50A Interim Approved 31 Aug 05	<b>This file contains:</b> CH-46 Pilot Syllabus dated 31 Aug 2005 CH-46 Crew Chief Syllabus dated 31 Aug 2005 CH-46 AO/Gunner Syllabus dated 31 Aug 2005 Standard Terms dated 31 Aug 2005  <b>This latest update makes old-to-new T&amp;R code conversions in your SARA database. Please ensure your crew members are logging ONLY the new codes after applying this update!</b>  This file requires you to have previously loaded the last HMM T&R update file, available below from the <a href="#">Previous T&amp;R downloads</a> section.
<b>HMH</b> CH-53E <a href="#">Download Now</a>  MCO P3500.51A Interim Approved 31 Aug 05	<b>This file contains:</b> CH-53E Pilot Syllabus dated 31 Aug 2005 CH-53E Crew Chief Syllabus dated 31 Aug 2005 CH-53E AO/Gunner Syllabus dated 31 Aug 2005 Standard Terms dated 31 Aug 2005  <b>This latest update makes old-to-new T&amp;R code conversions in your SARA database. Please ensure your crew members are logging ONLY the new codes after applying this update!</b>  This file requires you to have previously loaded the last HMH (E)T&R update file, available below from the <a href="#">Previous T&amp;R downloads</a> section.
<b>HMH</b> CH-53D <a href="#">Download Now</a>  MCO P3500.51A Interim Approved 31 Aug 05	<b>This file contains:</b> CH-53D Pilot Syllabus dated 31 Aug 2005 CH-53D Crew Chief Syllabus dated 31 Aug 2005 CH-53D AO/Gunner Syllabus dated 31 Aug 2005 Standard Terms dated 31 Aug 2005  <b>This latest update makes old-to-new T&amp;R code conversions in your SARA database. Please ensure your crew members are logging ONLY the new codes after applying this update!</b>  This file requires you to have previously loaded the last HMH (D) T&R update file, available below from the <a href="#">Previous T&amp;R downloads</a> section.
<b>HMLA</b> AH-1W, UH-1N <a href="#">Download Now</a> 	<b>This file contains:</b> AH-1W Pilot Syllabus dated 28 Jul 2004 UH-1N Pilot Syllabus dated 28 Jul 2004 UH-1N Crew Chief Syllabus dated 28 Jul 2004 UH-1N AO/Gunner Syllabus dated 28 Jul 2004 Standard Terms dated 23 Jul 2004



# SARA and ORM

- Rules enforcement direct from source
  - NAVMC P3500.14; 3710.7, NATOPS, Aircraft T&R
  - Uses T&R database download
    - “Least & Most Restrictive Qualifications for schedule validation”
  - Rules govern attainment & maintenance of event proficiency & qualifications
  - Rules govern validation of flight schedule through the use of decision trees
  - Error Log notifies if a rule has been ‘broken’



# Overview

- *SARA Update*
- *Care & Feeding*
- *M-SHARP Update*
- *What will it do?*
- *What's it look like?*
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# SARA and Data Management

- SARA database management
  - SARA only works properly if the aircrew data is accurate. Requires daily maintenance
    - Daily NALCOMIS download
    - Individual Proficiency and Flight hour tracking
    - Monthly validation with Log Book viewer & MIFARS
  - Questions you might ask to “encourage” data accuracy
    - Are you doing the daily NALCOMIS transfers?
    - Are you comparing the logbook viewer to MIFARS
    - Where’s my error log? (Long means database issues)



# NALCOMIS & OOMA

## SARA NALCOMIS Import Wizard - Page 1 of 2 (Select Import File)



Indicate type of NALCOMIS interface being used:

- ☒ OMA (Legacy)  
☐ OOMA System

The NALCOMIS to SARA interface will import data into SARA via the NALCOMIS NAVFLIRS extract file. Note the following items before continuing:

- The log data for a crewmember flying out of squadron will have to be logged manually into SARA.
- The event types (landings and approaches) and time types for your unit need to be standardized.
- Only three training codes are transferred from NALCOMIS, additional training codes will have to be entered manually into SARA.
- An impact to Risk Management for multi days/legs exists since activities, event, and hours are applied to the first leg of a flight.

See the SARA NALCOMIS Interface User's Guide for additional information on all the above items.

This wizard will assist you in importing NALCOMIS NAVFLIRS data into SARA. Enter the name of the NAVFLIRS extract data file that contains the data to import.

Browse...

Version 4.1.0

< Back

Next >

Cancel

# Logbook Viewer

Logbook Viewer - [for SARA databases]

File Edit View Insert Format Records Tools Window Help

Options

Search: pa Next Clear

From: 01-Nov-00 To: 30-Nov-00 A/C Flights Simulator Flights

January February March April May June July August September October November December

**CAPT PARKER - NOVEMBER '00**

DAY	MODEL	BUNO	TPT	FPT	CPT	ACDR	SCT	NVG	ACT	SIM	NITE	1	2	A	B	T&R CODES
02 Nov	AH1W	165277	2.2	1.1	1.1	2.2										324, 362
03 Nov	AH1W	163934	2.1	1.0	1.1	2.1										324
04 Nov	AH1W	165332	2.5	1.2	1.3	2.5										324, 362
06 Nov	AH1W	165044	2.1	0.3	1.8											350
07 Nov	AH1W	165275	1.0	0.5	0.5			1.0/			1.0					280
08 Nov	AH1W	165448	2.3	1.2	1.1	2.3		2.3/		0.3	2.3					220
11 Nov	AH1W	165277	3.2	1.6	1.6	3.2										324
12 Nov	AH1W	160824	2.3	1.2	1.1			2.3/			2.3					325
13 Nov	AH1W	165332	1.4	0.4	1.0											280
20 Nov	AH1W	163934	0.8	0.4	0.4					0.2	0.6					280
29 Nov	AH1W	165369	4.6	2.3	2.3			4.4/4.4		0.5	4.4	1				352, 325, 324

11 Flights found

TPT	FPT	CPT	ACDR	SCT	NVG	ACT	SIM	NITE	1	2	A	B
24.5	11.2	13.3	12.3		10.0/4.4	0.5	0.5	10.6	1			

Ready

NUM

25 Mar  
2006

UNCLASSIFIED  
13

Aviation Training  
Branch



# SARA to M-SHARP Data Transfer

## SARA Program Management

### AVIATION TRAINING BRANCH

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The following SARA data will be imported into M-SHARP: ←

- Crew administrative data
- Latest Proficiency Status
- Latest Qualifications & Designations Status
- All Flight Hour Baselines
  - Career Total Flight Time
  - Total Time in Model
  - All Time Types (NVG, Instrument, ACMDR)
- All logged (NAVFLIR) data
  - Crew & Crew Position
  - Flight time
  - Approaches & Landings
  - T&R Codes
  - TMR Codes
  - Pax & Cargo
  - Ranges & Ordnance

# SARA Training Dates (St Louis)

2006		
Jan	24-26 / 24-26	St. Louis
Feb	14-16 / 14-16	St. Louis
Mar	7-9	St. Louis
Apr	11-13	St. Louis
May	23-25	St. Louis
Jun	<b>13-15</b>	St. Louis
Jul	25-27	St. Louis
Aug	22-24	St. Louis
Sep	19-21	St. Louis
Oct	24-26	St. Louis
Nov	14-16	St. Louis
Dec	5-7	St. Louis
2007		
Jan	23-25	St. Louis
Feb	13-15	St. Louis

Schedule on TECOM(ATB) Website  
 SARA Help Desk M-F 0800-1700 CST (877)671-7222  
 Unit funded TAD; Budget for it! Max class size 1

# SARA Mobile Training “Team”

- Anticipate loss of talent
  - Mobile Training Team CY06 (...plan on...)
    - 2 trips West
    - 2 trips East (New River Apr 24-28)
    - 1 trip Japan (5/5days Futemna/Iwakuni)
    - Flexibility based on cost/benefit
    - 2.5 days class; squadron physical presence)





# NMCI and MS Office 2003

- Incompatibility with Access 2003
  - Specific problem ID elusive
    - NALCOMIS transfer
    - Rebuild of database
    - Viewing and printing flight schedule
  - Courses of Action
    - Maintain SARA on legacy network until M-SHARP
    - SARA Update; NMCI (Office 2003; Access security to Low)
    - SARA to NMCI (Office 2000)
    - Continue problem identification...COA development





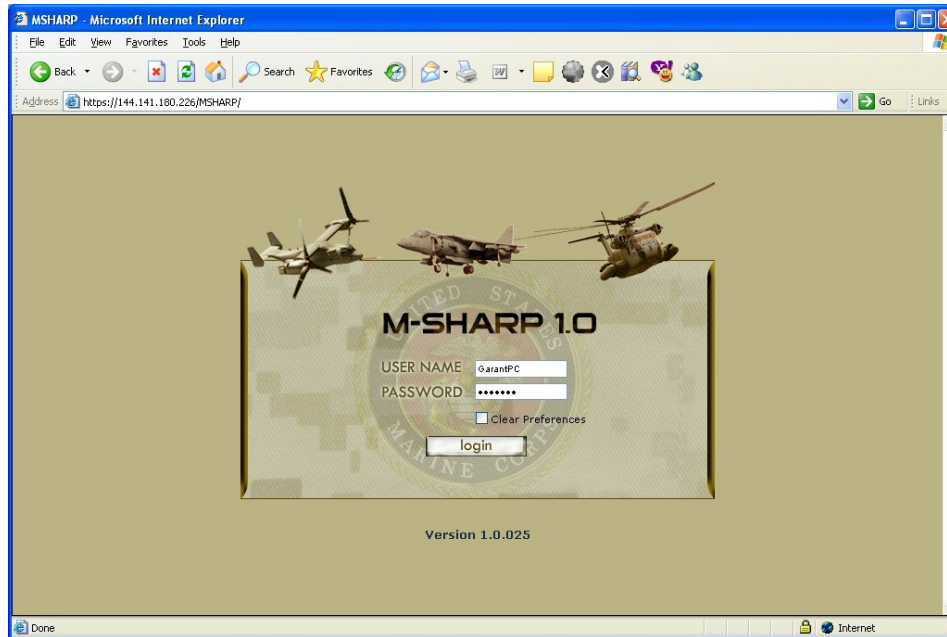
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**STANDARDS**  
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# M-SHARP



Marine Corps Sierra Hotel Aviation Readiness Program

- Government-owned, contractor-maintained

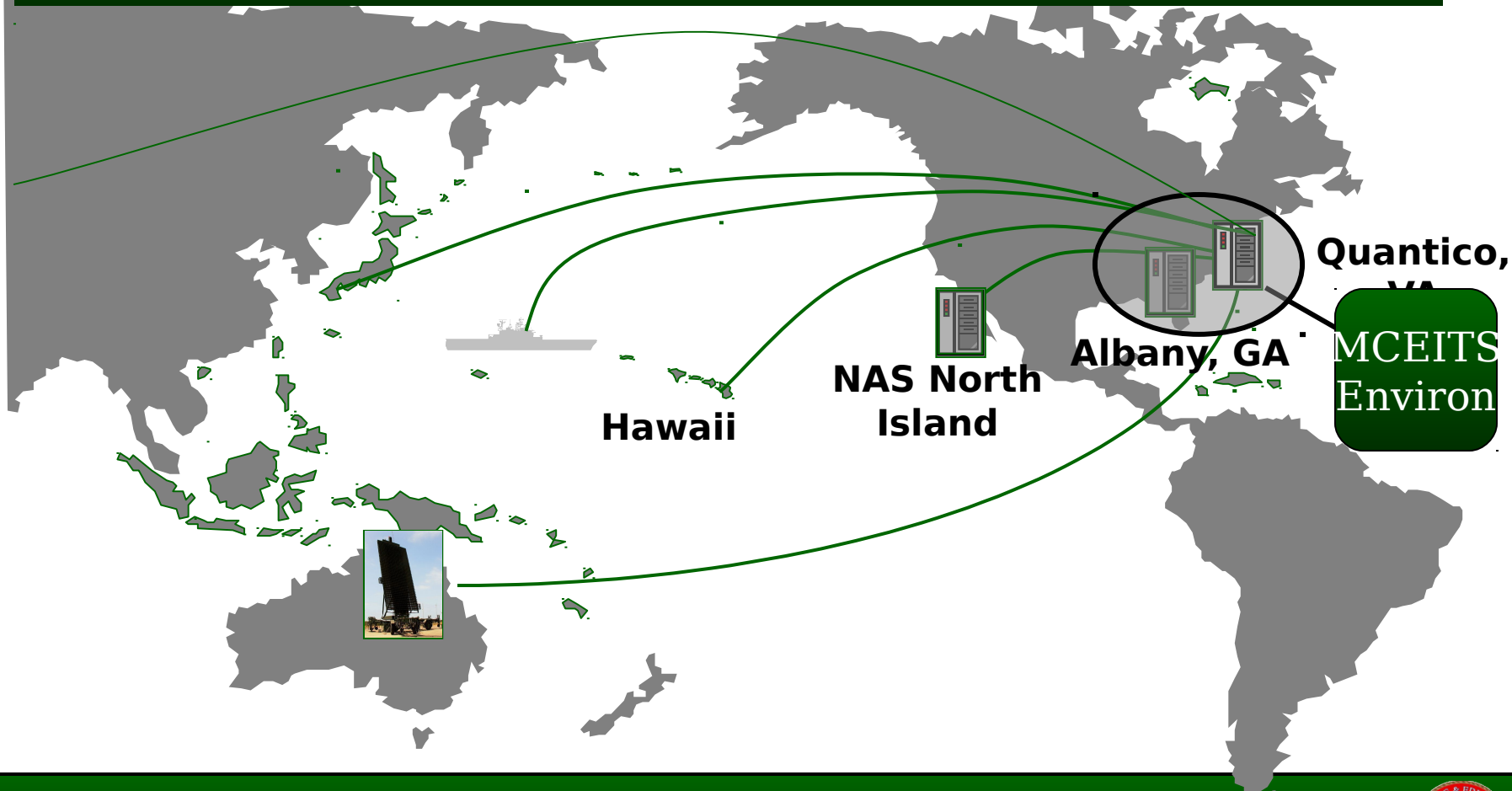
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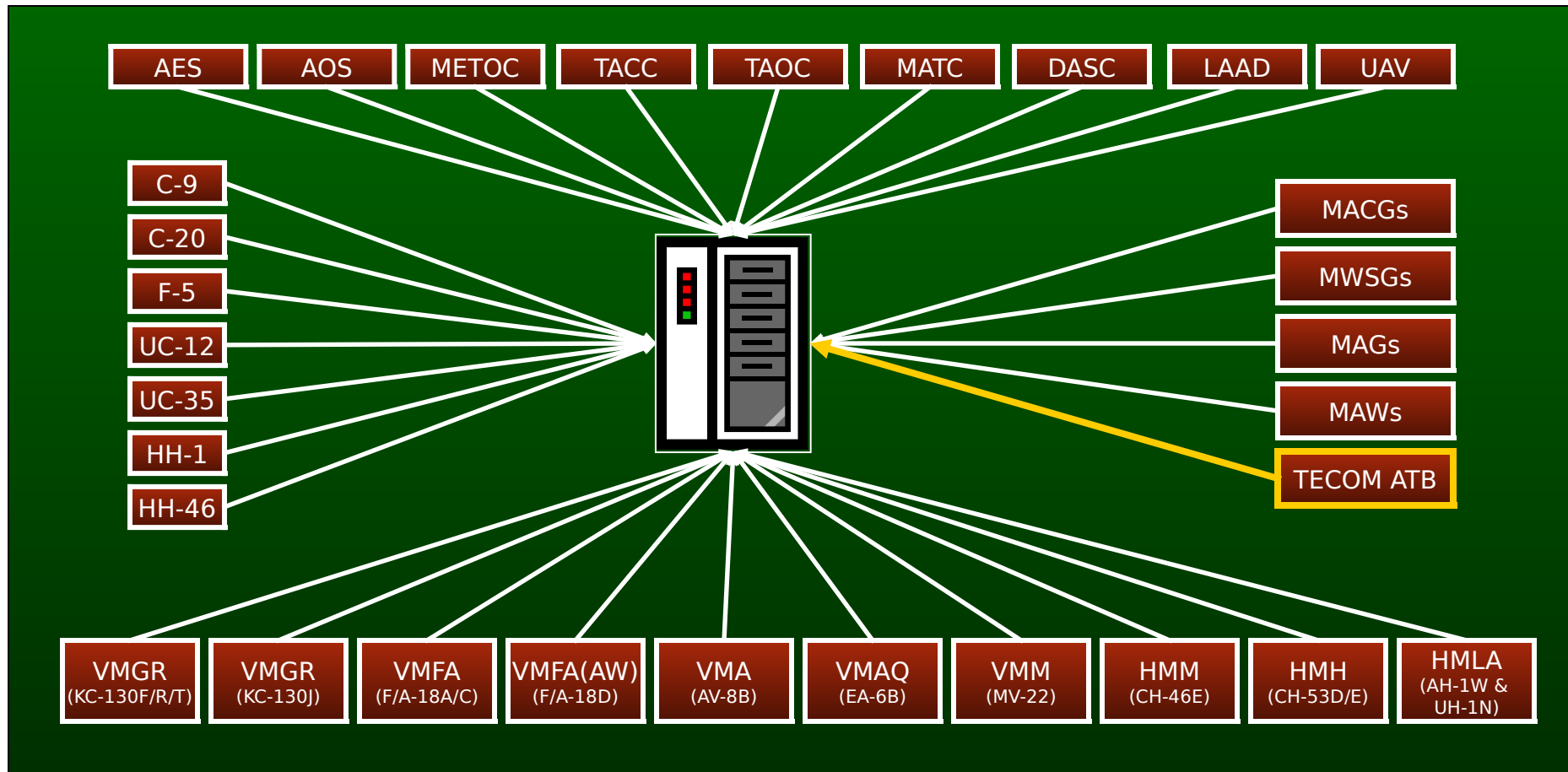


# Connectivity & Backup

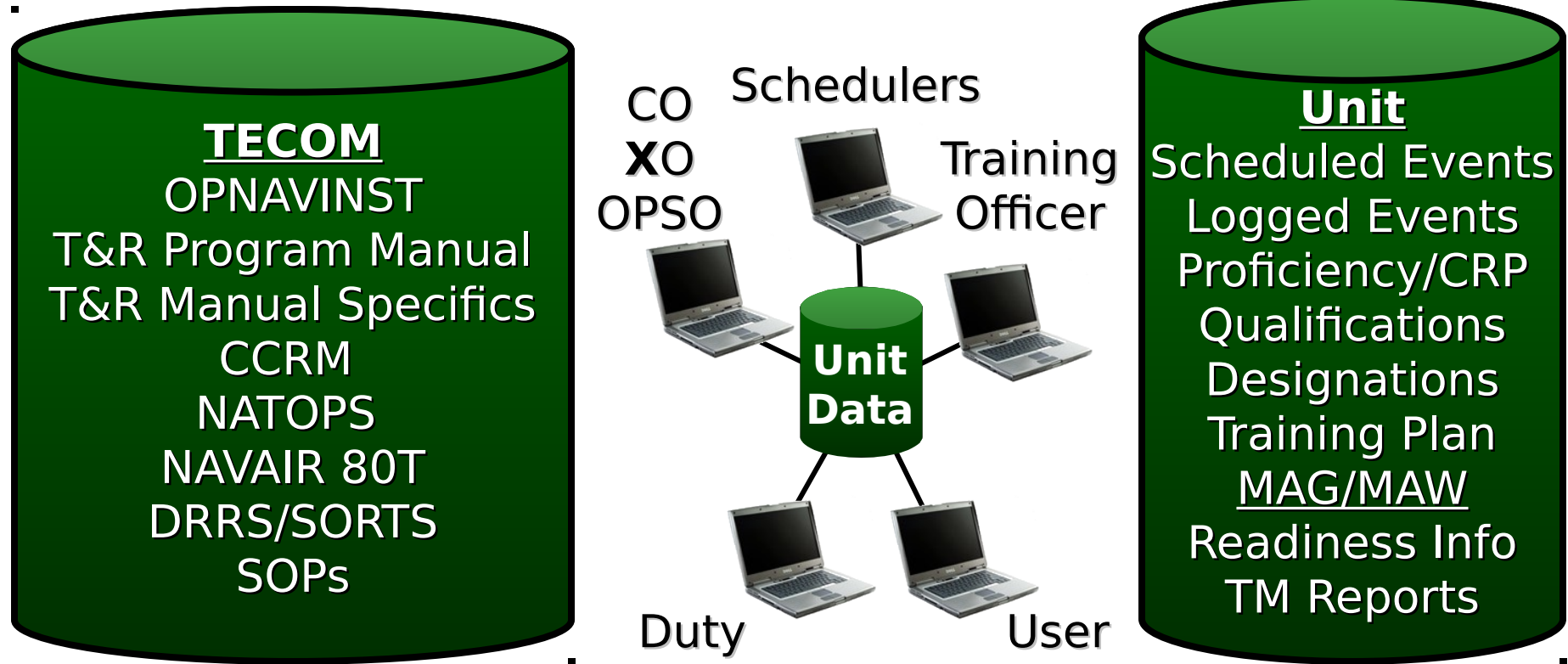
## Flying Units, MACG, and MWSS



# Centralized Management



# Standardized Method & Structure



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# USMC Level Properties

**M-SHARP** *Marines The Few. The Proud.*

Main Scheduling Reports Setup T&R LogOff

**USMC Level Properties**

- Equipment Lists
  - Type Model Series
    - Aircraft List**
    - Simulators
    - Master Weapons
  - Resource Lists
  - Organizational Lists
  - NALCOMIS Lists
  - M-SHARP General Lists
  - M-SHARP Functional Lists
  - 3710 Lists
- ATB
  - Maintain Database
  - Eom Transmission
- Wing Based Properties
  - Flight Logging
  - Missions
- Squadron Based Properties
  - Personnel Data
  - Personnel

**Aircraft List**

Save New Cancel TMS: \*All TMS Export Import

	BUND	Unit	TMS	Side #	Simulator	Item Status
<input type="checkbox"/>	159186	HMM-266	UH-1N	32	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159188	VMFA(AW)-533	UH-1N	17	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159190	VMFA(AW)-533	UH-1N	16	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159192	HMM-266	UH-1N	31	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159194	HMH-362	UH-1N	33	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159195	HMH-362	UH-1N	45	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159196	HMM-266	UH-1N	30	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159197	HMH-362	UH-1N	30	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159204	HMH-362	UH-1N	404	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159683	VMFA(AW)-533	UH-1N	10	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159684	HMH-362	UH-1N	411	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159701	HMH-362	UH-1N	401	<input type="checkbox"/>	Shown
<input type="checkbox"/>	159775	HMH-362	UH-1N	405	<input type="checkbox"/>	Shown
<input type="checkbox"/>	160013	VMGR-252	KC-130R	013	<input type="checkbox"/>	Shown
<input type="checkbox"/>	160014	VMGR-252	KC-130R	014	<input type="checkbox"/>	Shown
<input type="checkbox"/>	160018	VMGR-252	KC-130R	018	<input type="checkbox"/>	Shown
<input type="checkbox"/>	160019	VMGR-252	KC-130R	019	<input type="checkbox"/>	Shown

20 3 Rows 41 - 60 of 251

UNCLASS User: dev Squadron: NOTYET Users: 1 1.0.025

Done Internet

**ATB**

# Squadron Level Properties

Unit

**M-SHARP** Marines The Few. The Proud.

Main Scheduling Reports Setup T&R Help LogOff

**Personnel**

New Cancel Search Last Name: \*ALL Export

NAME	RANK	LINEAL	UNIT	DET	CALLSIGN	SEX	STATUS	READINESS
ASHFORD, R	1LT	0	HMH-462	00		M	ACTIVE	Assigned to Unit
ASHTON, DF	COL	0	HMH-461	00	0	M	DELETED	Assigned to Unit
ATKINSON, H.L.	MAJ	0	VMGR-252	00	0	M	ACTIVE	Assigned to Unit
ATWOOD, SCOTT	CPT	1	HMH-362	00	VEGAS	M	ACTIVE	Assigned to Unit
AULISIO, S.M.	Cpl							
AVLNARD, A	CPT							
BADDORF, CHRIS	1LT							
BAILEY, TE	1LT							
BAKER, ALAN	1LT							
BAKER, ROBERT	Sgt							
BALDRIDGE, P. E.	SSgt							
BALL, THOMAS	CPT							
BANKS, Z	Cpl							
BANN, BRIAN	1LT							
BANNISTER, NJ	Cpl							
BANTON, JOHN	CPT							
BARDASH II, R.D.	SSgt							
BARHAM, DENNIS	LTC							
BARNES, FRANK	GySgt							
BARNES, D	Cpl							

**Edit Personnel - Web Page Dialog**

**Modify Personnel Data**

Save Cancel Modify Login Info Org Permissions

**Personnel Data**

First Name: NJ Middle Name: 0 Last Name: Bannister Modify SSN

Print Name on Schedule as: 0 Bannister Email Address:

Service Code: Default Call Sign: 0 ☐ RAC

Special Instrument: Standard Sex: Male Lineal Order: 0 Birth Date: Null Date of Commission: Null First Flight: Null

**Security**

☐ Wing Admin ☐ User Admin ☐ NATOPS ☐ Watch Officer ☐ Schedule ☐ Flight Log

**Historical Attributes**

☐ Show All ☒ Delete ☐ Split

Start	End	Unit	Status	Rank	CrewPositions	Readiness
1/1/2000		VMFA(AW)		Corporal		Assigned to Unit

# Automated T&R Builder

Toolbar

## CHAPTER 1

### AH-1W PILOT

#### 100. MARINE LIGHT-UTILITY ATTACK SQUADRON (HMLA) UNIT CORE COMPETENCY

1. HMLA Mission. Support the MAGTF Commander by providing offensive air support, utility support, armed escort and airborne supporting arms coordination, day or night under all weather conditions during expeditionary, joint or combined operations.
2. AH-1 Mission Essential Task List (METL)
  - a. (UJTL TA 1.1.2) Conduct Shipboard Deck helicopter Landing Qualifications.
  - b. (UJTL TA 1.1.4) Conduct Sea and Air Deployment Operations
    - Maintain the capability to deploy and operate from advanced bases, expeditionary airfields, Forward Operating Bases (FOBs), and naval shipping.
    - Perform organizational maintenance on assigned aircraft.
  - c. (UJTL TA 1.2.1) Conduct Air Assault Operations and Air Assault
    - Provide armed escort for assault helicopters and tiltrotor aircraft.
  - d. (UJTL TA 1.2.3) Conduct Amphibious Assault and Raid Operations
    - Provide armed escort for airborne and surface forces.
  - e. (UJTL TA 3.2.1) Conduct Fire Support
    - Engage and destroy point armored targets.
    - Provide fire support for forward and rear area forces against point and area targets.
  - f. (UJTL TA 3.2.2) Conduct Close Air Support
    - Conduct escort of friendly ground forces.
    - Conduct Assault Support Escort.
  - g. (UJTL TA 3.2.3) Conduct Interdiction Operations
    - Conduct Armed Reconnaissance.
  - h. (UJTL TA 3.2.4) Conduct Joint Suppression of Enemy Air Defenses

## Chapter 1 - Core Competency

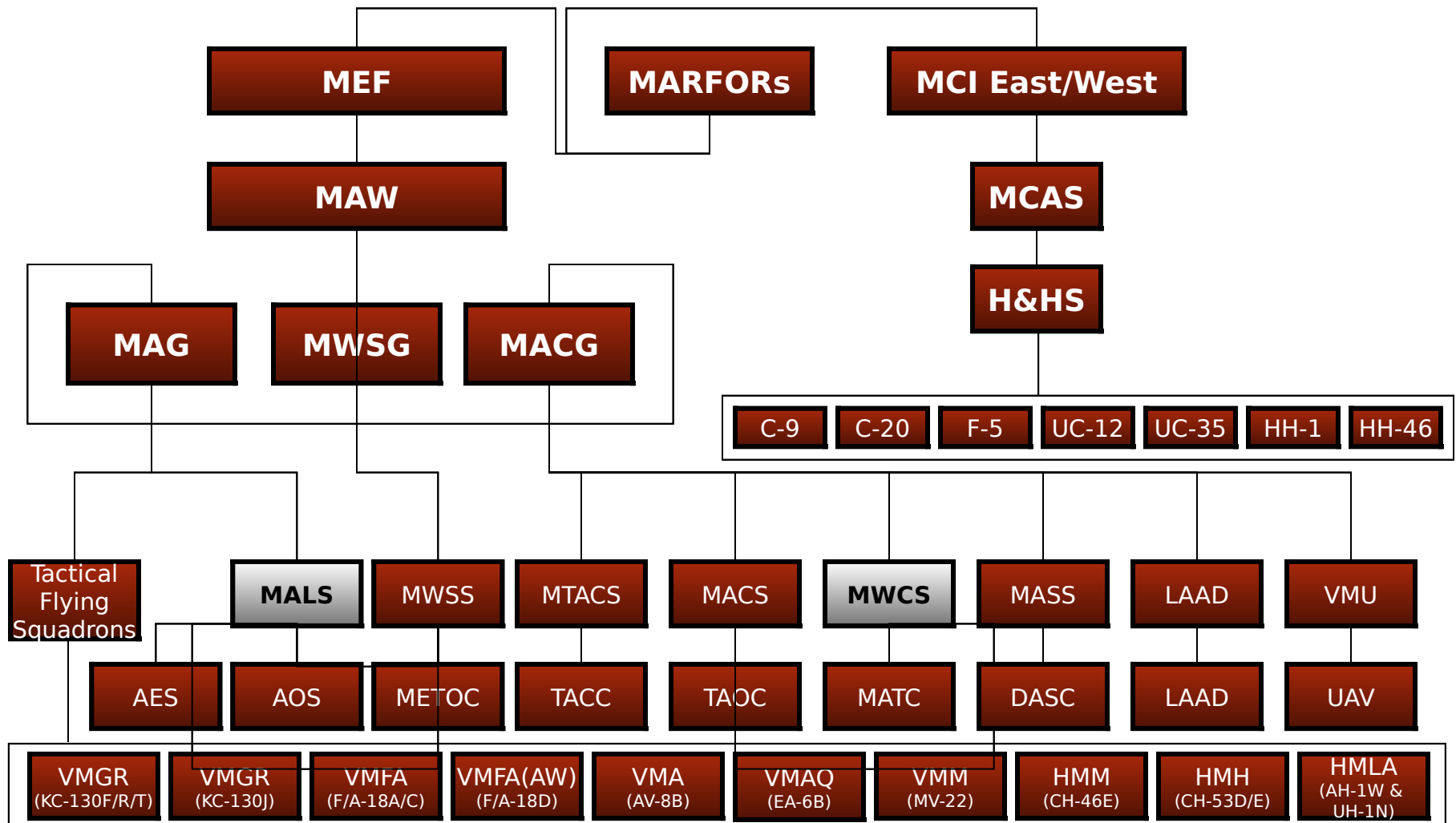
- 100. Unit Core Competency
- 1. Mission
  - 2. Mission Essential Task List
  - 3. Table of Organization
  - 4. Core Capability Statement
  - 5. METL/Core Skill Matrix
  - 6. Core Model Minimum Requirements
    - a. Unit Core Skill Proficiency Requirements
      - » (1) Events Required to Attain CSP
      - » (2) Events Required to Maintain CSP
      - » (3) Events Required to Attain Core Plus CSP
      - » (4) Events Required to Maintain Core Plus CSP
    - b. Combat Leadership Requirements
  - 7. Instructor Requirements Tables
  - 8. Training Progression Models
- 101. Ordnance Requirements
- 10X. [Other Requirements]

## Chapter 2 -

### <Syllabus\_Name> Syllabus

- 200. Syllabus Core Competency
  - 1. Core Model Minimum Requirements

# SARA to M-SHARP Transition



# Fielding Assistance & Stay Behind Support

- COA Laydown
  - MCAS Camp Pendleton
  - MCAS Miramar
  - MCAS Yuma
  - MCAS Cherry Point
  - MCAS New River
  - MCAS Beaufort
  - MCAS Iwakuni
  - MCAS Futenma
  - MCAF Kaneohe
- 4<sup>th</sup> MAW support
- On-site services
  - 5-day fielding per MAG
  - On-site troubleshooting
  - Ongoing training & implementation assist
  - Custom report builds
  - Deployment support...
  - Enhancement input

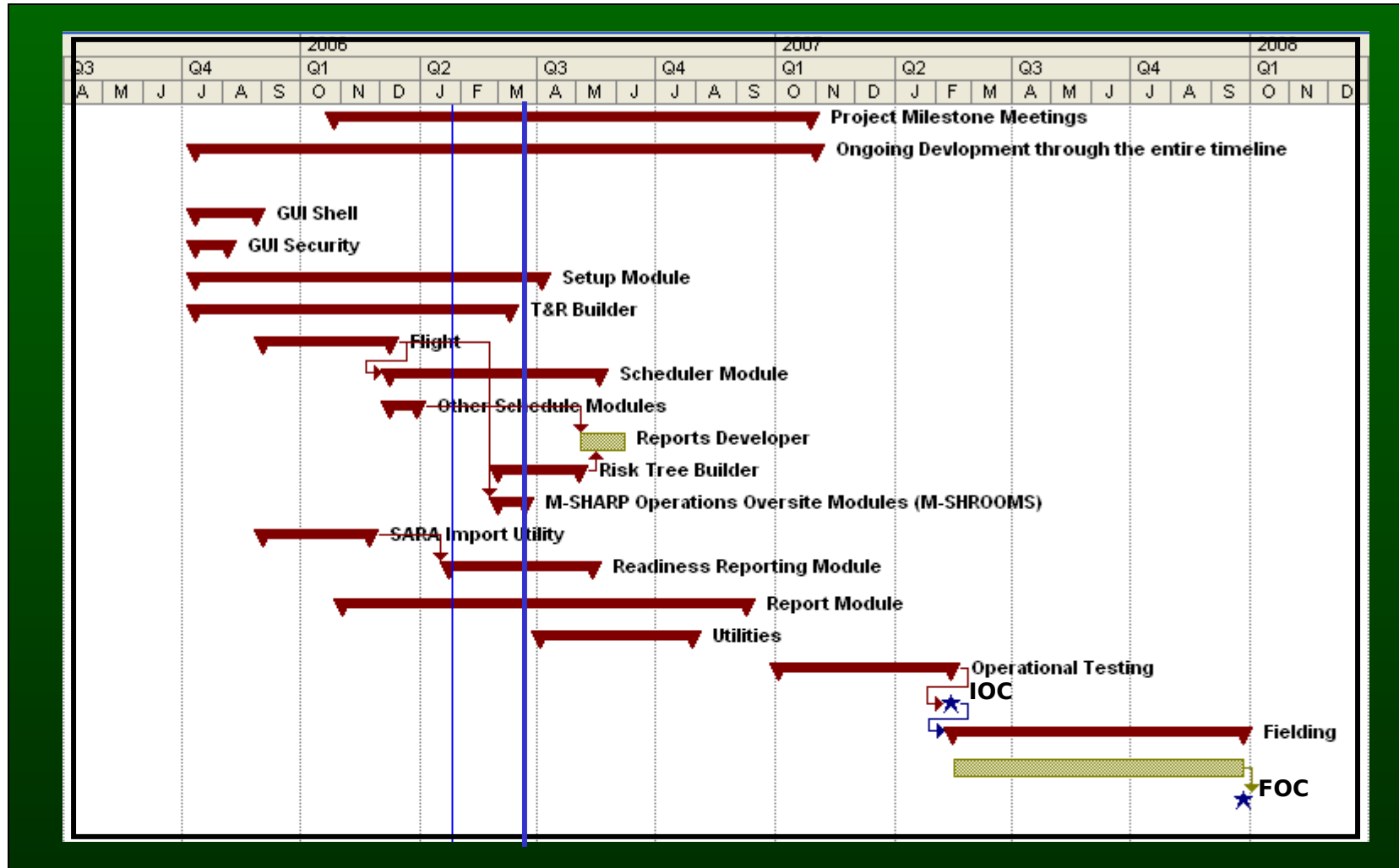


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# M-SHARP Development Schedule



# Fielding Concept to Detailed Planning

Task Name	# Units	Parent Command	Duration	Start	2007												
					Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May			
Yuma			5 days	Mon 10/2/06													
Cherry Point			5 days	Thu 3/1/07													
2MAW HQ			5 days	Thu 3/1/07													
MCI East HQ			5 days	Thu 3/1/07													
MAG-14 HQ			5 days	Thu 3/1/07													
MACG-28 HQ			5 days	Thu 3/1/07													
MVSG-27 HQ			5 days	Thu 3/1/07													
VMAQ-1		MAG-14	5 days	Thu 3/1/07													
VMAQ-2		MAG-14	5 days	Thu 3/1/07													
VMAQ-3		MAG-14	5 days	Thu 3/1/07													
VMAQ-4		MAG-14	5 days	Thu 3/1/07													
VMA-231		MAG-14	5 days	Thu 3/1/07													
VMA-223		MAG-14	5 days	Thu 3/1/07													
VMA-542		MAG-14	5 days	Thu 3/1/07													
VMGR-252		MAG-14	5 days	Thu 3/1/07													
VMGRT-253		MAG-14	5 days	Thu 3/1/07													
VMAT-203		MAG-14	5 days	Thu 3/1/07													
VMU-2		MACG-28	5 days	Thu 3/1/07													
MTACS-28		MACG-28	5 days	Thu 3/1/07													
MACS-2		MACG-28	5 days	Thu 3/1/07													
MASS-1		MACG-28	5 days	Thu 3/1/07													
MVCS-28		MACG-28	5 days	Thu 3/1/07													
2D LAAD BN		MACG-28	5 days	Thu 3/1/07													
VMR-1		MCI	5 days	Thu 3/1/07													
MVSS-274		MVSG-27	5 days	Thu 3/1/07													
New River			5 days	Thu 3/1/07													

25 Mar  
2006

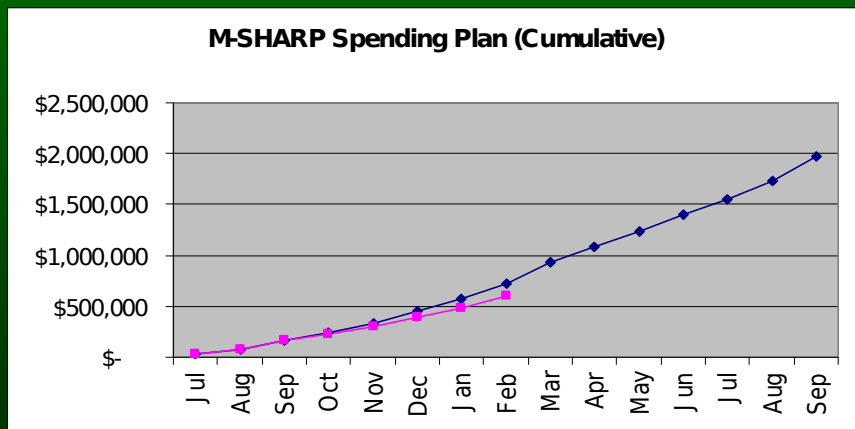
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32

Aviation Training  
Branch





# M-SHARP Spending (FY06)



- MARFOR funding O&M/N FY06-FY07
- PMA-205(ATS) FY08-FY13

FY	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13
Est. Cost	2.0 M	2.1	2.20	2.32	2.44	2.56	2.69	2.82

# Overview

- *SARA Update*
- *Care & Feeding*
- *M-SHARP Update*
- *What will it do?*
- *What's it look like?*
- *When will I see it?*
- *Q&A*





# Aviation Training Branch

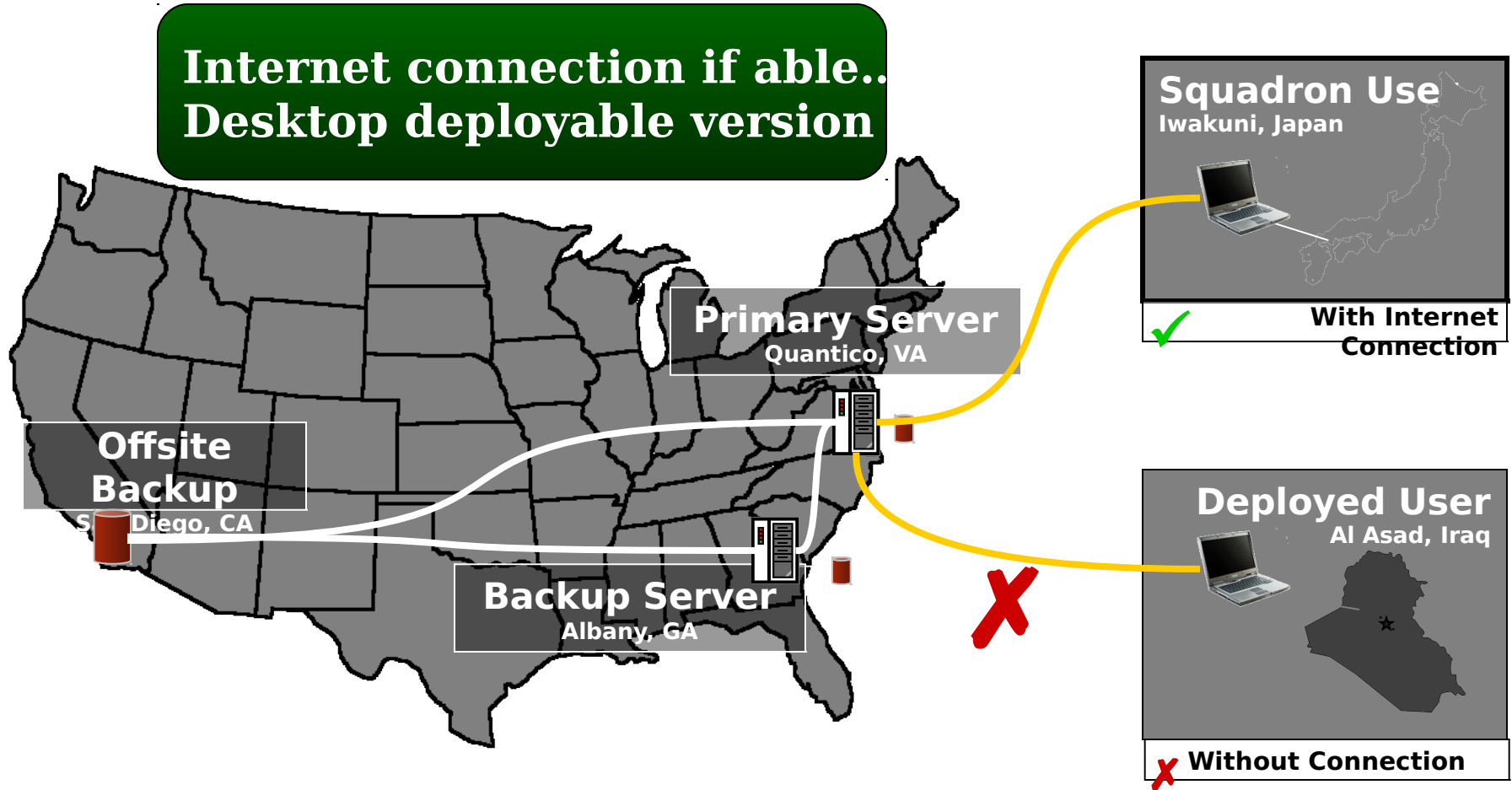
## Commanders' Course Back-Ups

***SARA Update***  
***Marine-SHARP Update***

**LtCol Pat Riley "Coach"**  
**TECOM(ATB)**  
**STANDARDS**  
**AUTOMATED TRAINING**  
**MANAGEMENT**

UNCLASSIFIED

# Deployed Operations



# Risk Mitigation & Disaster Recovery

## 1. Local hard drive/computer failure

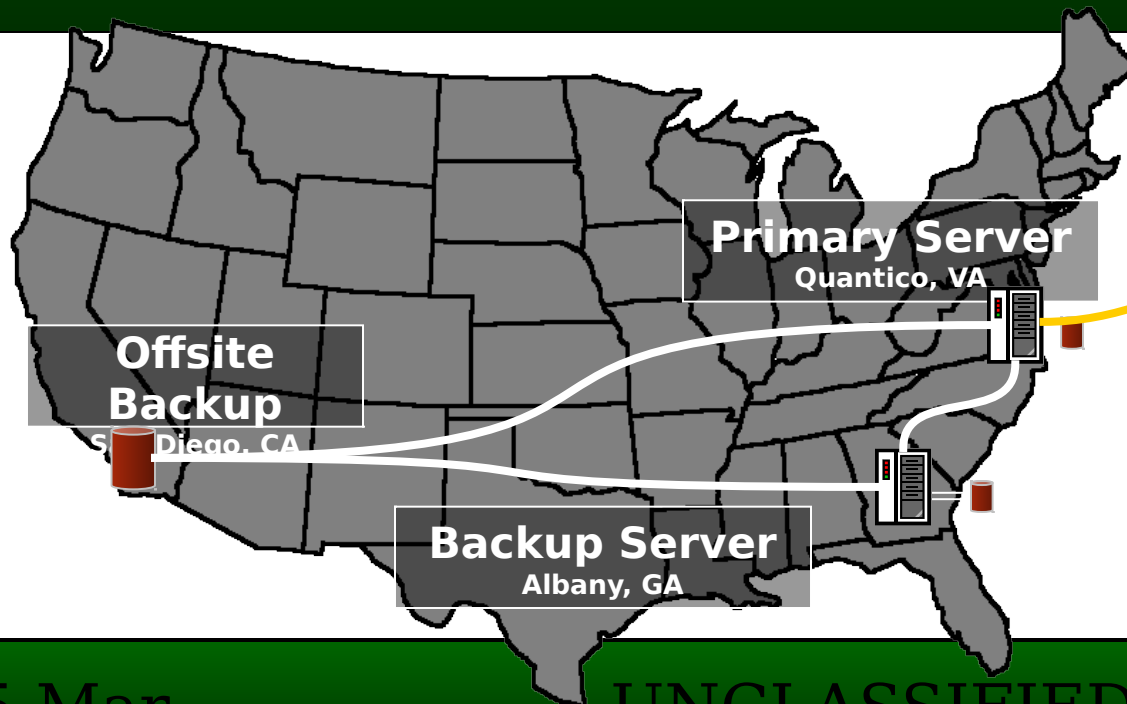
- Log-on with another computer

## 2. Lose internet connection

- Continue with desktop version ( NMCI Cert)

## 3. Deployed Operations

- xDeployAdmin (Deployable M-SHARP)



## Squadron Use

Iwakuni, Japan



1

With Internet Connection



## Deployed User

Al Asad, Iraq



Without Connection

# Risk Mitigation & Disaster Recovery

4. **Primary Server hard disc failure**
  - Redundant Storage
5. **Complete Primary Server failure**
  - Auto-redirected to backup server

6. **Data Recovery**
  - Restore from one of several backups (local, server, or offsite)

